



Weekly COVID-19 Update in Montana (as of 11/19/2021)

This report is a weekly snapshot of COVID-19 activity in Montana. Data are analyzed based on information available as of November 19, 2021. Data are provisional and expected to change as more information is received.

Case Data

Table 1. Summary of COVID-19 Activity – Montana, as of 11/19/2021

	TOTAL	RECENT WEEK	PERCENT CHANGE FROM PREVIOUS WEEK
LABORATORY TESTS	2,126,409	37,919	+16%
DEATHS	2,567	77	+15%

Figure 1. COVID-19 Cases and Hospitalizations over Time - Montana, as of 11/19/2021

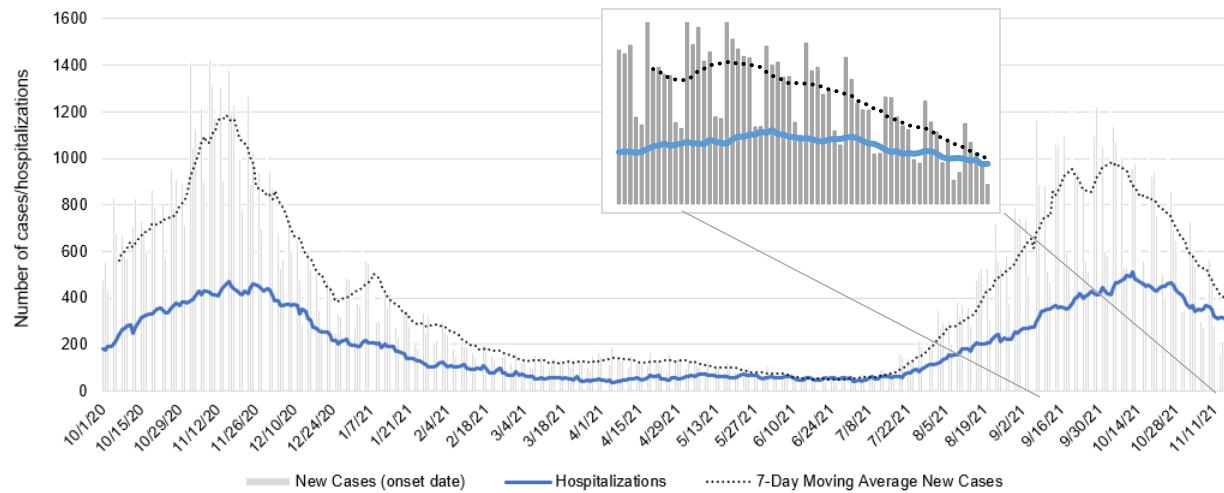
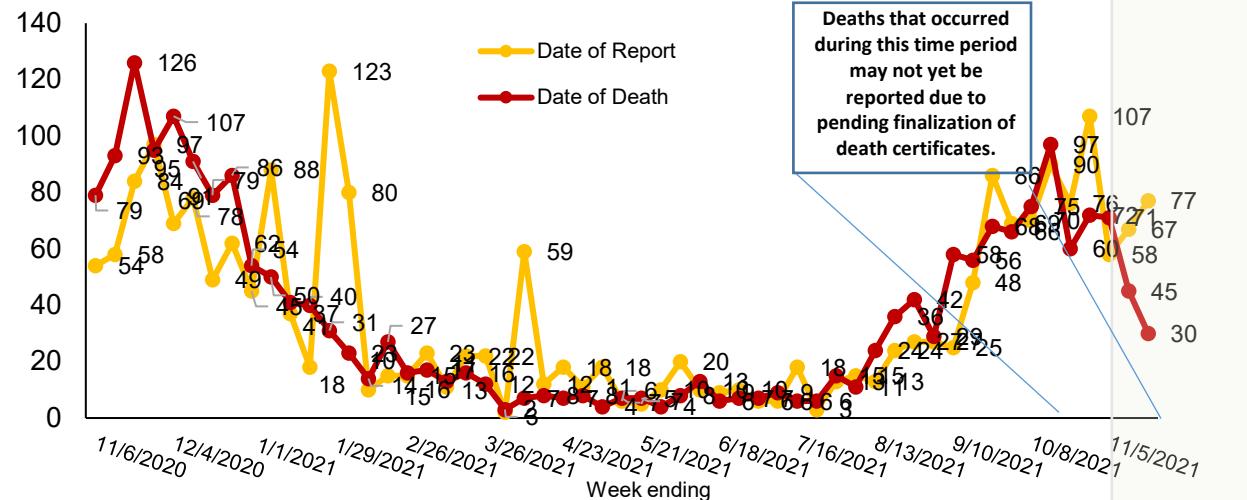


Figure 2. COVID-19 Deaths by Report Date and Date of Death – Montana, 11/1/2020 – 11/19/2021





Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10th, 2021. Most recently, the Pfizer vaccine was approved for the 5-11 year old age group on October 29th, 2021. To date, 1,193,312 doses have been given across the state and 50% of the eligible population is considered fully vaccinated (table 3).

Table 2: COVID-19 Vaccine Doses Administered for the 12 and older population – Montana, as of 11/19/2021

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 11/5	WEEK ENDING 11/12	WEEK ENDING 11/19*
TOTAL DOSES ADMINISTERED	1,186,107		30,841	24,847	21,460
DOSE 1 ADMINISTERED	574,496	62%	3,668	3,398	3,160
FULLY VACCINATED INDIVIDUALS	514,000	55%	3,006	2,769	2,337

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Table 3: COVID-19 Vaccine Doses Administered for the 5 and older population – Montana, as of 11/19/2021

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 11/5	WEEK ENDING 11/12	WEEK ENDING 11/19*
TOTAL DOSES ADMINISTERED	1,193,312		31,068	28,575	24,710
DOSE 1 ADMINISTERED	581,700	57%	3,895	7,126	6,409
FULLY VACCINATED INDIVIDUALS	514,001	50%	3,006	2,769	2,338

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Figure 3. COVID-19 Vaccine Doses Administered by Week, 5+ Years – Montana, as of 11/19/2021

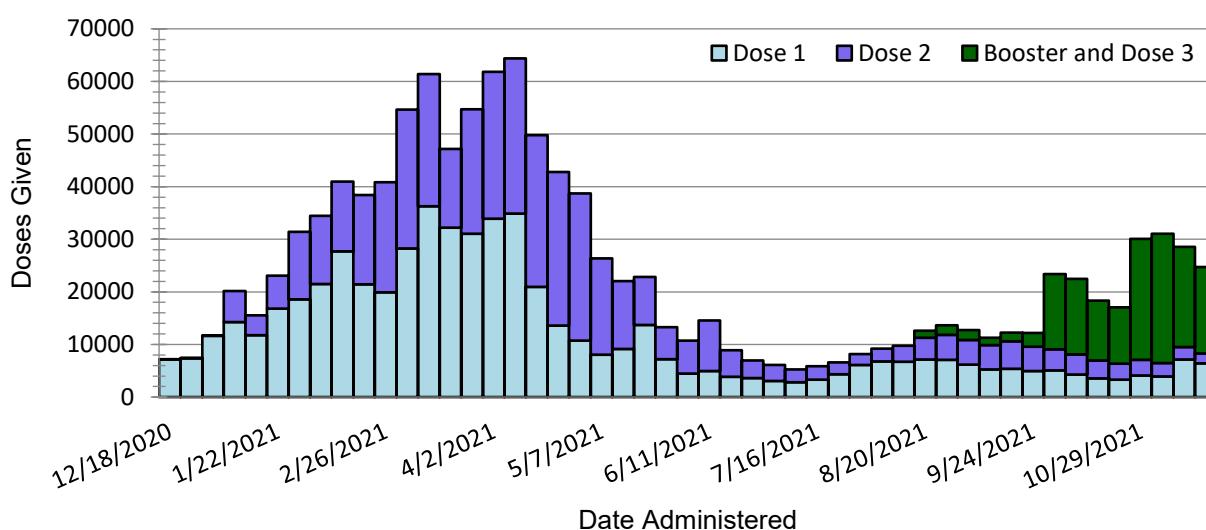
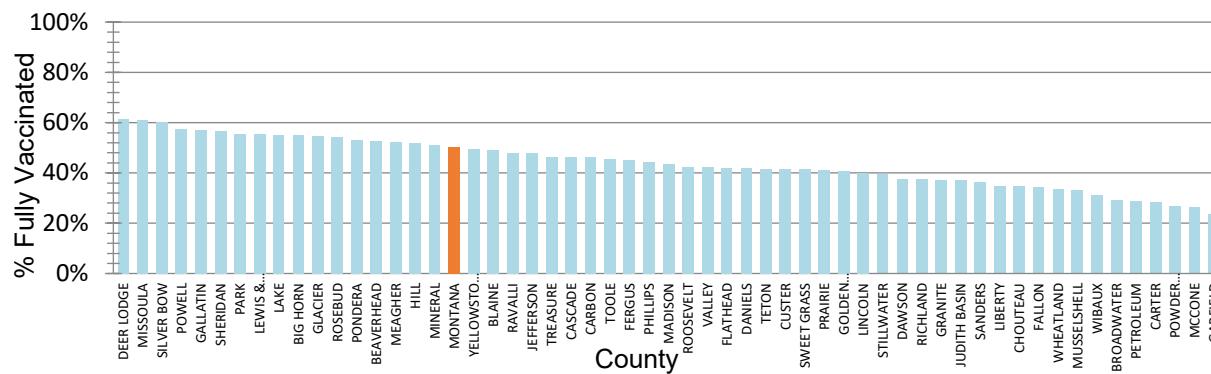




Figure 4. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County – Montana, 11/19/2021



Variant and Breakthrough Cases

Figure 6 displays the percentage of the most common SARS-CoV-2 lineages detected each week, among all samples sequenced that were collected that week. There were 6,929 samples that were sequenced and their lineages were reported to [GISAID](#) since September 2020; figure 5 displays the number of specimens sequenced by week. A variant is a lineage that has one or more mutations that differentiate it from other lineages in circulation. Delta is the only Variant of Concern at this time, and it is the dominant circulating strain in Montana. Of specimens collected and sequenced in October and November 1,867/1,873 (99.8%) are Delta. Aside from Delta, all other former variants of concern and interest have been re-classified as Variants Being Monitored. Delta has been the predominant variant in Montana since July 2021.

Figure 5. Number of COVID-19 samples sequenced by collection date, Montana 11/22/2021 [n=6,929]

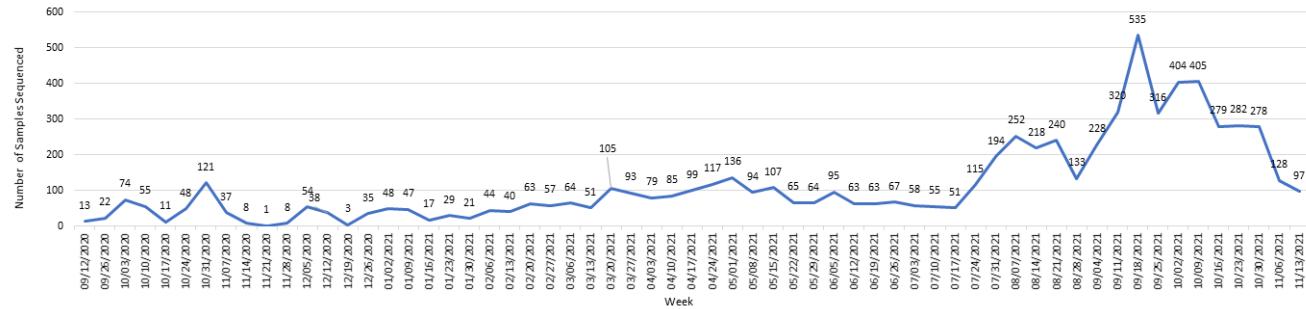
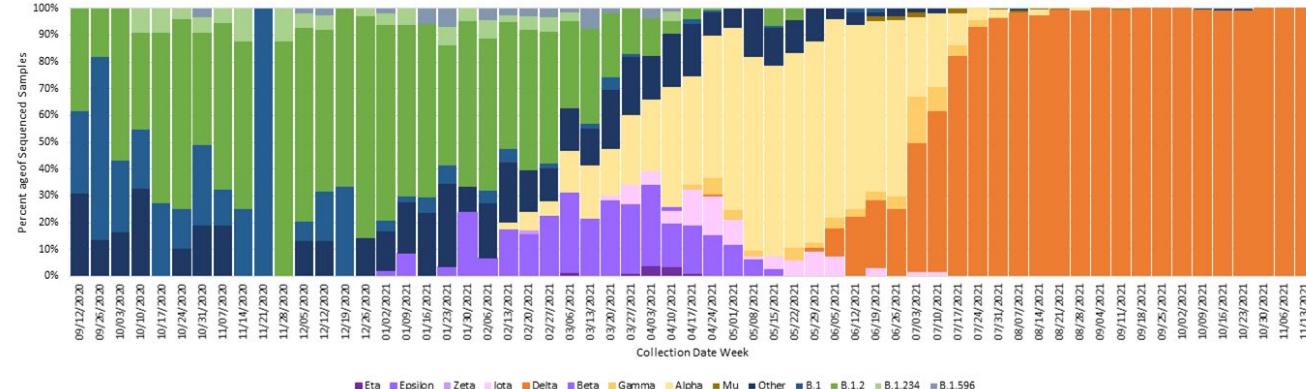


Figure 6. Percent of COVID-19 variants in sequenced samples by collection date, Montana 11/22/2021





A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected ≥ 14 days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Depending on the specific vaccine administered, completion of series could be one or two doses of vaccine. As of 11/23/21, Montana reports 14,221 cases of confirmed breakthrough disease, which includes 829 hospitalizations and 229 deaths. Over the past 8 weeks (September 25 – November 19) the number of cases among unvaccinated individuals was 4.3 times higher than the number of cases among vaccinated individuals; the number of hospitalizations and deaths among unvaccinated individuals were 3.9 and 2.8 times higher, respectively, compared to vaccinated individuals.

Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1 and November 19** to review vaccination status. Since the beginning of April this year, 83% of Montanans who were hospitalized and 77% of those who died were unvaccinated at the time of infection (Table 4). Of the 4,931 individuals who were hospitalized during this time period, 85 (2%) were <18 years old, 742 (15%) were 18 to 44 years old, 1,699 (34%) were 45 to 64 years old and 2,405 (49%) were ≥ 65 years old.

Additionally, COVID-19-related hospitalization and death data from **September 25– November 19** (last 8 weeks) were analyzed to review vaccination status. Seventy-nine percent of Montanans who were hospitalized and 74% of those who died had not received a COVID-19 vaccine (Table 5). Of the 2,136 individuals who were hospitalized during this time period, 40 (2%) were <18 years old, 260 (12%) were 18 to 44 years old, 717 (34%) were 45 to 64 years old and 1,119 (52%) were ≥ 65 years old.

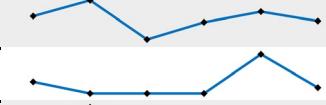
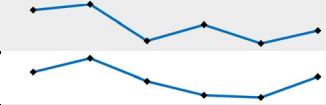
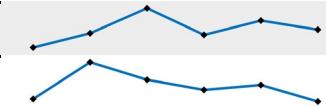
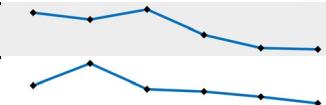
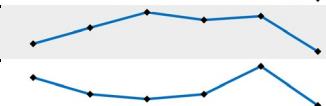
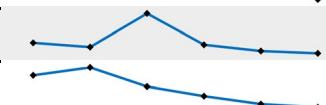
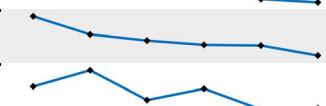
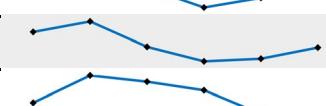
Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to November 19, 2021

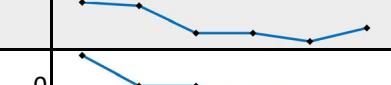
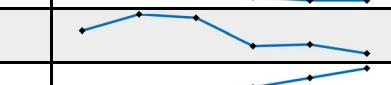
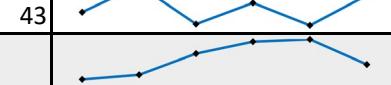
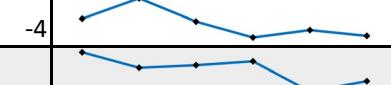
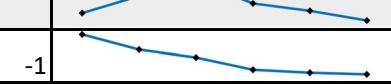
	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	4,931	942
UNVACCINATED	4,107 (83%)	722 (77%)
VACCINATED (BREAKTHROUGH CASE)	824 (17%)	220 (23%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-102 (62)	24-103 (70)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	16-101 (75)	43-101 (82)

Table 5. Vaccination status of COVID-19 hospitalizations and deaths – September 25 – November 19, 2021

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	2,136	406
UNVACCINATED	1,698 (79%)	300 (74%)
VACCINATED (BREAKTHROUGH CASE)	438 (21%)	106 (26%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-97 (63)	24-103 (71)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	17-101 (75)	45-101 (82)

Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	15 Oct	22 Oct	29 Oct	5 Nov	12 Nov	19 Nov	change from previous week*	Trendline
Beaverhead	13	52	48	12	22	34	12	
Big Horn	31	45	31	51	138	174	36	
Blaine	140	40	26	63	6	43	37	
Broadwater	25	25	19	34	26	21	-5	
Carbon	51	76	14	41	58	43	-15	
Carter	7	1	1	1	21	4	-17	
Cascade	374	668	337	387	569	274	-295	
Chouteau	25	16	35	33	8	9	1	
Custer	88	95	52	71	49	64	15	
Daniels	12	18	8	2	1	10	9	
Dawson	60	66	60	65	46	21	-25	
Deer Lodge	34	35	34	18	18	12	-6	
Fallon	4	12	26	11	19	14	-5	
Fergus	33	106	71	51	61	28	-33	
Flathead	502	471	516	403	344	339	-5	
Gallatin	502	650	477	462	425	382	-43	
Garfield	3	7	11	9	10	1	-9	
Glacier	83	65	60	65	95	53	-42	
Golden Valley	8	6	22	7	4	3	-1	
Granite	21	26	14	8	3	1	-2	
Hill	136	85	68	56	54	26	-28	
Jefferson	50	64	38	48	30	31	1	
Judith Basin	6	3	8	6	3		-3	
Lake	347	153	205	96	138	101	-37	
Lewis and Clark	446	459	408	358	281	217	-64	
Liberty	6	4	4	2	3		-3	
Lincoln	85	101	62	40	44	61	17	
Madison	25	47	42	35	16	15	-1	
McCone	7	14	6	6	13	12	-1	
Meagher	3	3	8	9	4	2	-2	

Missoula	631	580	471	378	309	230	-79	
Park	70	149	98	187	42	63	21	
Phillips	65	36	40	22	16	12	-4	
Powder River	15	5	5	3	2	2	0	
Prairie	2	3	3	4	5	6	1	
Richland	48	86	31	61	29	72	43	
Rosebud	25	39	23	12	17	13	-4	
Sheridan	5	6	14	6	7	6	-1	
Stillwater	25	43	51	40	13		-13	
Teton	41	31	26	18	16	15	-1	
Treasure	1	3	5	6		6	6	
Wheatland	4	7	5	4	3		-3	
Yellowstone	1126	947	1069	770	662	528	-134	
MONTANA	5747	5929	5148	4400	4032	3370	-662	

^tNote: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 5+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (5+)	Percent Fully Vaccinated (5+)
BEAVERHEAD	9,091	5,144	4,134	807	4,805	10,085	57%	53%
BIG HORN	11,975	7,378	6,244	1,456	6,582	15,078	62%	55%
BLAINE	6,044	3,287	2,786	846	2,981	6,919	54%	49%
BROADWATER	6,092	2,133	1,557	489	1,785	4,179	35%	29%
CARBON	10,476	5,260	4,541	1,554	4,866	11,355	50%	46%
CARTER	1,141	349	306	37	326	692	31%	29%
CASCADE	76,124	39,174	31,693	8,687	35,387	79,554	51%	46%
CHOUTEAU	5,430	2,059	1,711	841	1,880	4,611	38%	35%
CUSTER	10,692	4,967	3,962	1,260	4,446	10,189	46%	42%
DANIELS	1,559	697	600	213	652	1,510	45%	42%
DAWSON	8,071	3,279	2,758	651	3,038	6,688	41%	38%
DEER LODGE	8,887	5,974	4,913	1,899	5,470	12,786	67%	62%
FALLON	2,646	991	869	274	910	2,134	37%	34%
FERGUS	10,495	5,135	4,354	1,411	4,718	10,900	49%	45%
FLATHEAD	99,993	47,868	37,882	11,615	41,875	97,365	48%	42%
GALLATIN	110,900	75,789	57,748	16,056	63,471	149,593	68%	57%
GARFIELD	1,188	307	242	54	284	603	26%	24%
GLACIER	12,447	9,668	6,316	1,564	6,822	17,548	78%	55%
GOLDEN VALLEY	788	345	289	64	320	698	44%	41%
GRANITE	3,218	1,378	1,095	308	1,204	2,781	43%	37%
HILL	14,914	8,767	6,617	2,313	7,758	17,697	59%	52%
JEFFERSON	11,819	6,282	5,263	1,879	5,656	13,424	53%	48%
JUDITH BASIN	1,880	752	642	138	700	1,532	40%	37%
LAKE	29,280	18,295	15,031	4,554	16,164	37,880	62%	55%
LEWIS & CLARK	66,257	41,657	33,891	12,714	36,614	88,262	63%	55%
LIBERTY	2,234	806	679	312	775	1,797	36%	35%
LINCOLN	19,480	8,806	7,190	2,131	7,831	18,127	45%	40%
MADISON	8,589	4,136	3,317	1,057	3,728	8,510	48%	43%
MCCONE	1,562	433	402	109	410	944	28%	26%
MEAGHER	1,726	968	826	268	902	2,062	56%	52%
MINERAL	4,302	2,423	1,745	399	2,192	4,567	56%	51%
MISSOULA	115,881	79,003	64,837	21,893	70,618	165,733	68%	61%
MUSSELSHELL	4,458	1,605	1,301	241	1,487	3,147	36%	33%
PARK	15,969	10,457	7,961	2,374	8,832	20,792	65%	55%
PETROLEUM	483	152	132	49	140	333	31%	29%
PHILLIPS	3,675	1,773	1,341	551	1,632	3,665	48%	44%
PONDERA	5,389	3,315	2,519	815	2,871	6,649	62%	53%
POWDER RIVER	1,588	466	379	101	427	946	29%	27%
POWELL	6,534	3,999	2,996	567	3,762	7,562	61%	58%
PRAIRIE	994	440	389	79	410	908	44%	41%
RAVALLI	42,972	22,923	18,372	6,514	20,646	47,809	53%	48%
RICHLAND	10,310	4,106	3,235	761	3,877	8,102	40%	38%
ROOSEVELT	9,918	4,779	3,603	809	4,211	9,191	48%	42%
ROSEBUD	8,160	5,083	3,937	1,066	4,441	10,086	62%	54%
SANDERS	11,641	4,645	3,967	841	4,230	9,453	40%	36%
SHERIDAN	3,075	1,857	1,615	680	1,745	4,152	60%	57%
SILVER BOW	33,267	22,223	18,834	6,098	20,075	47,155	67%	60%
STILLWATER	9,451	4,081	3,215	1,087	3,737	8,383	43%	40%
SWEET GRASS	3,523	1,599	1,242	494	1,460	3,335	45%	41%
TETON	5,819	2,918	1,995	735	2,424	5,648	50%	42%
TOOLE	4,391	2,112	1,646	293	1,996	4,051	48%	45%
TREASURE	623	393	269	78	290	740	63%	47%
VALLEY	6,931	3,146	2,516	972	2,932	6,634	45%	42%
WHEATLAND	2,035	736	642	143	682	1,521	36%	34%
WIBAUX	898	326	272	44	280	642	36%	31%
YELLOWSTONE	153,378	85,056	70,469	21,080	76,244	176,605	55%	50%
MONTANA	1,020,663	581,700	467,287	144,325	514,001	1,193,312	57%	50%